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RAW SEQUENCE LISTING

DATE: 09/10/2001

PATENT APPLICATION: US/09/853,641

TIME: 09:04:00

Input Set : A:\032301W1171.seq.ST25.txt

Output Set: N:\CRF3\09102001\I853641.raw

3 <110> APPLICANT: NAMPOOTHIRI, Madhavan
 5 <120> TITLE OF INVENTION: Nucleotide Sequences Coding for the CdsA Gene
 7 <130> FILE REFERENCE: 032301 WD 1171
 9 <140> CURRENT APPLICATION NUMBER: 09/853,641
 C--> 10 <141> CURRENT FILING DATE: 2001-08-22
 12 <160> NUMBER OF SEQ ID NOS: 4
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1300
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Corynebacterium glutamicum
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 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (200)..(1090)
 24 <223> OTHER INFORMATION: cdsA gene
 27 <220> FEATURE:
 28 <221> NAME/KEY: RBS
 29 <222> LOCATION: (187)..(195)
 30 <223> OTHER INFORMATION:
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 36 gcttaagaat tacgtcggtt caacgtcgat tgggcgggga aacgacgctt tcttttgctt 120
 38 gcaagagtgt ttggaagaat tttttcgaaa atgctggcac catcaacagt gacattgtta 180
 40 gaaacttcaa ggagaaccc atg aat gaa ccg gag caa cat cac cgg tcc atg 232
 41 Met Asn Glu Pro Glu Gln His His Arg Ser Met
 42 1 5 10
 44 agg atg ccc aaa ccc aaa aat aat gcg ggt cga gat ctc aaa gct gcc 280
 45 Arg Met Pro Lys Pro Lys Asn Asn Ala Gly Arg Asp Leu Lys Ala Ala
 46 15 20 25
 48 att gct gtg ggg atc gga ctg ggg gtc ctg gtt ctt ttg ggg att gtc 328
 49 Ile Ala Val Gly Ile Gly Leu Gly Val Leu Val Leu Leu Gly Ile Val
 50 30 35 40
 52 cta agc cca tgg ggt tgg tac atc ctc gtt gca ggt ttt atg gct gca 376
 53 Leu Ser Pro Trp Gly Trp Tyr Ile Leu Val Ala Gly Phe Met Ala Ala
 54 45 50 55
 56 gca aca tgg gaa gtt ggt agc aga ctt aaa gaa ggc tat cat ttg 424
 57 Ala Thr Trp Glu Val Gly Ser Arg Leu Lys Glu Gly Gly Tyr His Leu
 58 60 65 70 75
 60 cca ctg ccg att atg atc atc ggc ggt cag gca atc atc tgg ctg tca 472
 61 Pro Leu Pro Ile Met Ile Ile Gly Gly Gln Ala Ile Ile Trp Leu Ser
 62 80 85 90
 64 tgg cca ttt ggc acg atg ggc att ttg gcg tct ttt gtg gcc act gtg 520
 65 Trp Pro Phe Gly Thr Met Gly Ile Leu Ala Ser Phe Val Ala Thr Val
 66 95 100 105
 68 ttg gtg ctg atg tat ttc cga att ttc tac aat ggc acg gaa aaa gaa 568
 69 Leu Val Leu Met Tyr Phe Arg Ile Phe Tyr Asn Gly Thr Glu Lys Glu
 70 110 115 120

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72 gcc cgc aac tat ttg agg gac acc tct gtg ggc atc ttc gtg ctc acc      616
73 Ala Arg Asn Tyr Leu Arg Asp Thr Ser Val Gly Ile Phe Val Leu Thr
74      125      130      135
76 tgg att cca ttg ttc gga agc ttc gct gcg atg ctg tcg ctg atg caa      664
77 Trp Ile Pro Leu Phe Gly Ser Phe Ala Ala Met Leu Ser Leu Met Gln
78 140      145      150      155
80 aac aat tcc atc ccg ggt aca tat ttc att ttg acg ttc atg ctg tgt      712
81 Asn Asn Ser Ile Pro Gly Thr Tyr Phe Ile Leu Thr Phe Met Leu Cys
82      160      165      170
84 gtg atc gca tcg gat gtg ggc ggg tat atc gcg ggt gtg ttc ttt gga      760
85 Val Ile Ala Ser Asp Val Gly Gly Tyr Ile Ala Gly Val Phe Phe Gly
86      175      180      185
88 tcg cac cca atg gcg ccg ttg gtg agt ccg aag aag tct tgg gaa ggc      808
89 Ser His Pro Met Ala Pro Leu Val Ser Pro Lys Lys Ser Trp Glu Gly
90      190      195      200
92 ttt gcc ggc tcc att gtc tta gga tcg gtc act ggt gca ctc agt gtt      856
93 Phe Ala Gly Ser Ile Val Leu Gly Ser Val Thr Gly Ala Leu Ser Val
94      205      210      215
96 cac ttc ctg ctc gat cac cac tgg tgg atg ggt gtg atc ttg ggt tgt      904
97 His Phe Leu Leu Asp His His Trp Trp Met Gly Val Ile Leu Gly Cys
98 220      225      230      235
100 gcc cta gtt gtg tgc gcc acg ttg ggt gac ttg gtt gag tcg cag ttc      952
101 Ala Leu Val Val Cys Ala Thr Leu Gly Asp Leu Val Glu Ser Gln Phe
102      240      245      250
104 aaa cgc gat ttg ggc atc aag gat atg tcg aac ctt ctt cca ggc cac      1000
105 Lys Arg Asp Leu Gly Ile Lys Asp Met Ser Asn Leu Leu Pro Gly His
106      255      260      265
108 ggc gga ttg atg gac cgt ttg gat ggc atg ctc ccg gcc gcg atg gtg      1048
109 Gly Gly Leu Met Asp Arg Leu Asp Gly Met Leu Pro Ala Ala Met Val
110      270      275      280
112 acg tgg ttg atc ctg agt gtg atc agc agc tcg tat ccg tcg      1090
113 Thr Trp Leu Ile Leu Ser Val Ile Ser Ser Ser Tyr Pro Ser
114      285      290      295
116 taaagcttgg gccagcttta agttcaaaaa acttgaaagg cgctgaggtg cataacgtgt      1150
118 gcacctcagc gccttttttg ctgtcaaagt ttaaagggtt ttacggattt ttcttaactg      1210
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127 <212> TYPE: PRT
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136 Lys Asn Asn Ala Gly Arg Asp Leu Lys Ala Ala Ile Ala Val Gly Ile
137      20      25      30
140 Gly Leu Gly Val Leu Val Leu Leu Gly Ile Val Leu Ser Pro Trp Gly
141      35      40      45
144 Trp Tyr Ile Leu Val Ala Gly Phe Met Ala Ala Ala Thr Trp Glu Val

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145      50      55      60
148 Gly Ser Arg Leu Lys Glu Gly Gly Tyr His Leu Pro Leu Pro Ile Met
149 65      70      75      80
152 Ile Ile Gly Gly Gln Ala Ile Ile Trp Leu Ser Trp Pro Phe Gly Thr
153      85      90      95
156 Met Gly Ile Leu Ala Ser Phe Val Ala Thr Val Leu Val Leu Met Tyr
157      100      105      110
160 Phe Arg Ile Phe Tyr Asn Gly Thr Glu Lys Glu Ala Arg Asn Tyr Leu
161      115      120      125
164 Arg Asp Thr Ser Val Gly Ile Phe Val Leu Thr Trp Ile Pro Leu Phe
165      130      135      140
168 Gly Ser Phe Ala Ala Met Leu Ser Leu Met Gln Asn Asn Ser Ile Pro
169 145      150      155      160
172 Gly Thr Tyr Phe Ile Leu Thr Phe Met Leu Cys Val Ile Ala Ser Asp
173      165      170      175
176 Val Gly Gly Tyr Ile Ala Gly Val Phe Phe Gly Ser His Pro Met Ala
177      180      185      190
180 Pro Leu Val Ser Pro Lys Lys Ser Trp Glu Gly Phe Ala Gly Ser Ile
181      195      200      205
184 Val Leu Gly Ser Val Thr Gly Ala Leu Ser Val His Phe Leu Leu Asp
185      210      215      220
188 His His Trp Trp Met Gly Val Ile Leu Gly Cys Ala Leu Val Val Cys
189 225      230      235      240
192 Ala Thr Leu Gly Asp Leu Val Glu Ser Gln Phe Lys Arg Asp Leu Gly
193      245      250      255
196 Ile Lys Asp Met Ser Asn Leu Leu Pro Gly His Gly Gly Leu Met Asp
197      260      265      270
200 Arg Leu Asp Gly Met Leu Pro Ala Ala Met Val Thr Trp Leu Ile Leu
201      275      280      285
204 Ser Val Ile Ser Ser Ser Tyr Pro Ser
205      290      295
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210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Primer for amplifying cdsA gene
216 <400> SEQUENCE: 3
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220 <210> SEQ ID NO: 4
221 <211> LENGTH: 33
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer for amplifying cdsA gene
228 <400> SEQUENCE: 4
229 cgcggatccg gctcgcaagg aaaaggaact gat

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VERIFICATION SUMMARY

DATE: 09/10/2001

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Input Set : A:\032301W1171.seq.ST25.txt

Output Set: N:\CRF3\09102001\I853641.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date